



Developing Monomers

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Chemical Name	3-Ethyl-3-phenoxymethyl-oxetane	Bis{[1-ethyl(3-oxetanil)]methyl} ether	3-Ethyl-3-[(2-ethylhexyloxy)methyl]oxetane	3-ethyl-1-[triethoxysilylpropoxy]oxetane	Oxetany1-Silsesquioxane
Abbreviated Name	POX	DOX	EHOX	OX-SQ	
Product Name	OXT-211	OXT-221	OXT-212	OXT-610	-
Chemical Formula					
note	-	-	-	-	model structure
Content	98% up	98% up	95% up	95% up	95% up
Molecular weight	192.3	214.3	228.4	320.5	1,000-2,000
Appearance	clear liquid	clear liquid	clear liquid	clear liquid	clear pale yellow liquid
Boiling point	130 deg. /5mmHg	119 deg. /5mmHg	133 deg. /10mmHg	128 deg. /1mmHg	-
Freezing point	-	-	-	-	-

Specific gravity (25 deg.)	1.046	0.999	0.892	-
Viscosity (25 deg.)	13.8 mPa/s	12.8 mPa/s	5.0 mPa/s	8 mPa/s
Flash point	145 (Open Cup)	144 (Open Cup)	130 (Open Cup)	156 (Open Cup)
Skin irritation (PII)	1.9	1.0	-	-
Ames test	Negative	Negative	Negative	Negative
,‡	-2 (DSC)	51 (VES)	-60 (DSC)	-
Specific Gravity	1.098	1.056	0.922	-
Shrinking with Curing	4.7%	5.5%	3.8%	-
CAS No.	3897-65-2	18934-00-4	-	3897-65-2
TOSCA	not included	not included	not included	not included
EINECS No.	not included	not included	not included	not included
Benefits	Flexibility, high cure response	high cross-link, high cure response	high diluency, high cure response	Good adhesion
Main Application	Adhesives, Coatings, Inks	Adhesives, Coatings, Inks	Adhesives, Coatings, Inks	Coatings
Technical Report	none	none	none	none

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